# **Standard Operating Procedure**

Title:\_SOP-030 Oscilloscope

PI:	Art Erdman	_Lab Location:	Mayo G217
Issue Date:	5/6/14	_Revision Date:_	NA
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Hazard Identification:			
Physical Danger			

### Exposure Assessment:

### **Electricity**

Electrical Shock

The oscilloscope is capable of electrical shock due to the supplied voltages from the equipment it is connected to. The oscilloscope must be grounded when in operation to avoid this safety hazard.

#### Control Plan:

- Read and become familiar with machine's operating procedures before operating
- Always know where the power off switch is located in case of emergency
- Always turn switch to off position when not operating oscilloscope
- Always disconnect the oscilloscope from the power source before servicing, repairing, or making any adjustments
- Keep all electrical cords away from touching exposed ends connected to oscilloscope
- Circuit should always be completely set up before turning on oscilloscope
  - o Don't have any loose ends that are connected to the oscilloscope
- Wear insulated protective garments as needed
- Never allow a spot of high brilliance to remain stationary for more than a few seconds as it may permanently burn the screen

# Experimental Procedures:

- Put on all safety equipment and tie back loose hair or clothing before operating
- Check to make sure all parts of machine are working and functioning properly
- Make sure oscilloscope is off and set up wires and complete circuit as desired
- When ready, turn on oscilloscope
- When finished, turn off oscilloscope before disconnecting any wires.
- Disconnect circuit and place all wires and other equipment back in the appropriate place
- Clean workspace.

For other inquiries, see the User Manual in Appendix.

## Waste Management Procedures:

When finished with the oscilloscope, always clean the area. Paper towels and cleaning solution can be found in G217-11. Dispose of debris appropriately.

Place all materials back in the appropriate place.

## Spill and Accident Procedures:

If an accident occurs, report immediately to the lab supervisor (G217-05) or other appropriate staff member. If no one is around, dial 911 on the landline phone near the door of G217-11 to reach the campus police. The lab first aid kit is located on the wall near the sink. A first aid pamphlet from DEHS is located in all of the MDC's first aid kits.